

Listing of the Claims

1. (Previously presented) A system, comprising:
a master device; and
a slave device coupled to the master device via a serial interface, the slave device
is configurable by the master device to operate in multiple modes including
a direct memory addressing mode and an indirect memory addressing
mode,
wherein fewer bits are serially transferred between the master device and the
slave device for reads and writes in the indirect memory addressing mode
than for reads and writes in the direct memory addressing mode.
2. (Previously presented) The system of claim 1 wherein the master device
configures the slave device to operate in the multiple modes using an initialization
command having a length that is greater than read/write command lengths associated
with the multiple modes.
3. (Original) The system of claim 1 wherein the master device comprises a processor
of a battery operated electronic device.
4. (Original) The system of claim 1 wherein the slave device comprises a wireless
LAN adapter, the wireless LAN adapter couples to an antenna that transmits and receives
wireless signals according to a wireless protocol.
5. (Previously presented) The system of claim 1 wherein commands associated with
the direct memory addressing mode have a bit length which is greater than commands
associated with indirect memory addressing mode.

6. (Previously presented) The system of claim 1 wherein the master and slave devices selectively switch from the direct memory addressing mode to the indirect memory addressing mode to conserve power.
7. (Previously presented) The system of claim 1 wherein the master and slave device communicate via a serial peripheral interface (SPI).
8. (Previously presented) A portable device, comprising:
a processor;
a slave device couple to the processor; and
a battery coupled to the processor and the slave device, the battery is operable to provide power to the processor and the slave device,
wherein the processor and the slave device are configurable to communicate in multiple modes, each mode being associated with a different read/write command length,
wherein each read/write command comprises a read/write field, a data length field, and an address field.
9. (Canceled).
10. (Original) The portable device of claim 8 wherein one of the multiple modes comprises to a low power compatible mode that implements a command length having fewer bits than another of the multiple modes.
11. (Original) The portable device of claim 10 wherein the processor and the slave device are configured to communicate in the low power compatible mode when only the battery provides power to the processor and the slave device.

12. (Original) The portable device of claim 10 wherein the processor and the slave device are configured to communicate in the low power compatible mode when the battery has less than a predetermined threshold amount of power available to power the processor and the slave device.
13. (Original) A method, comprising:
determining if a power consumption parameter of a device exists;
configuring a device to interpret read/write commands having a non-reduced length; and
configuring the device to interpret read/write commands having a reduced length if the power consumption parameter exists.
14. (Original) The method of claim 13 wherein the non-reduced length comprises 32-bits.
15. (Original) The method of claim 14 wherein the reduced length comprises 16-bits.
16. (Original) The method of claim 13 further comprising performing functions associated with a wireless communication protocol in response to an interpretation of the read/write commands.
17. (Original) The method of claim 13 wherein the power consumption parameter comprises the device being powered by a battery
18. (Original) The method of claim 13 wherein the power consumption parameter comprises a battery powering the device having less than a predetermined threshold amount of available power.

19. (Previously presented) A system, comprising:
- a first device;
 - a second device coupled to the first device;
 - means for configuring the second device in a first mode associated with read/write commands having a non-reduced address field;
 - means for configuring the second device in a second mode associated with read/write commands having a reduced address field; and
 - means for conveying a "not busy" signal from the slave device to the master device during the first and second modes, the "not busy" signal having fewer bits in the second mode than in the first mode.
20. (Original) The system of claim 19 further comprising means for determining when to configure the second device in the first and second modes.
21. (Previously presented) The system of claim 19 further comprising means for switching between the first and second modes based on a power consumption parameter.